

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/051270

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H05K13/04		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H05K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 04 123493 A (MATSUSHITA ELECTRIC IND CO LTD) 23 April 1992 (1992-04-23) abstract -----	1,4-6, 11-13
X	JP 2000 091794 A (MATSUSHITA ELECTRIC IND CO LTD) 31 March 2000 (2000-03-31) abstract -----	1,3-5,12
X	JP 11 330792 A (JUKI CORP) 30 November 1999 (1999-11-30) abstract -----	1,9
X	JP 10 173397 A (MATSUSHITA ELECTRIC IND CO LTD) 26 June 1998 (1998-06-26) abstract -----	1,10,12, 13,15
<div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex. </div>		
<div style="display: flex;"> <div style="flex: 1;"> <p>* Special categories of cited documents:</p> <p>'A' document defining the general state of the art which is not considered to be of particular relevance</p> <p>'E' earlier document but published on or after the international filing date</p> <p>'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>'O' document referring to an oral disclosure, use, exhibition or other means</p> <p>'P' document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="flex: 1;"> <p>'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>'&' document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center;">9 November 2004</div>		Date of mailing of the international search report <div style="text-align: center;">16/11/2004</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer <div style="text-align: center;">Bolder, G</div>

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 04123493	A	23-04-1992	JP 2765210 B2	11-06-1998
JP 2000091794	A	31-03-2000	NONE	
JP 11330792	A	30-11-1999	NONE	
JP 10173397	A	26-06-1998	NONE	